

Claims

1. A compression-resistant drive chain for an adjusting device (1), having several chain links (4; 4') connected to one another in a pivotable way by connecting plates (21), which chain links are comprised of at least two swivel elements (6, 6'; 7, 7') having bearing surfaces (A) that are at least partially complementary in the longitudinal chain direction (M) and have sliding surfaces (G) that extend at least over portions thereof as an arc contour, wherein an adjusting force (F) of a drive member (9) oriented transversely to the longitudinal chain direction (M) and configured as a thrust bolt (14) can be introduced into the compression-resistant chain (3) and, when doing so, the chain links (4, 4') can be moved by means of a sprocket wheel (5) into a compression-resistant position (arrow F') and can be returned from this position, characterized in that the thrust bolt (14) engages between the neighboring swivel elements (6, 7; 6', 7') in the area of the arc contours (8') forming partial surfaces of the two bearing surfaces (A).

2. The compression-resistant drive chain according to claim 1, characterized in that the thrust bolt (14) in the advancing direction as well as in the return direction (D; D') defines a sliding surface pair, respectively, with its circumferential surface (B) resting at least partially against one of the two opposed concave arc contours (8'), and the adjusting force (F) of the driving sprocket wheel (5) is reversible in said pair within the chain (3).

3. The compression-resistant drive chain according to claim 1 or 2, characterized in that the thrust bolts (14) that are connected at their ends by the connecting plates (21) have correlated therewith swivel element pairs (6, 6'; 7, 7') that form two parallel rows in the longitudinal chain direction (M) in such a way that transversely to the longitudinal chain direction (M) between the two rows of swivel elements (6, 6'; 7, 7') the driving sprocket wheel (5) can be placed against at least one of the thrust bolts (14).

4. The compression-resistant drive chain according to one of the claims 1 to 3, characterized in that the swivel elements (6, 7) in the area of the concave arc contour (8') form a substantially wear-free and friction-free support for the thrust bolt (14).

5. The compression-resistant drive chain according to one of the claims 1 to 4, characterized in that in the area of the sliding surface pairs sliding elements (E) matched to the course of the arc contour (8') are provided, respectively, between thrust bolts (14) and swivel elements (6, 7, 6' 7').

6. The compression-resistant drive chain according to claim 5, characterized in that as sliding elements (E) sleeve segments (12) are provided, respectively, that, on the one hand, can be placed with an inner circular arc-shaped wall surface (13) onto the thrust bolt (14) and, on the other hand, have an outer U-shaped profile with a basic arc (15) that can be placed against the arc contour (8') of the swivel element (6, 7) and with legs (16, 17) that can be placed laterally against the swivel elements (6, 7).

7. The compression-resistant drive chain according to one of the claims 1 to 6, characterized in that the bearing surfaces (A) of neighboring swivel elements (6, 7; 6', 7') that can be placed against one another in the longitudinal chain direction (M) have partial areas (A', A''), respectively, that adjoin in a common plane the concave arc contour (8') and have a complementary shape, which partial areas in the compression-resistant position (4') of the chain (3) can be placed against one another as a positive-locking profile.

8. The compression-resistant drive chain according to one of the claims 1 to 7, characterized in that the swivel elements (6, 6'; 7, 7') are connected transversely to the longitudinal chain direction (M) by spacers (18), respectively.